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1 tggtgtgtcccttgcctcgcgaacgttggtgattgtttcatgacattaatctacgtgc
1 Met Thr Leu Ile Tyr Val
61 cttaatatattacaatgggtccctcaatcacacggattgtactgggtaacattctgttgg
7 Pro Ser Ile Phe Thr Met Val Pro Ser Ile Thr Arg Ile Val Leu Val Asn Ile Leu Leu
121 cgacgttgggttttgggagctgcagtccttcacagagacaacagaactgtttcggggagtc
27 Ala Thr Leu Val Leu Gly Ala Ala Val Leu Pro Arg Asp Asn Arg Thr Val Cys Gly Ser
181 aactctgcacatgggtggcagactccggcgagataaacacccggtactcctgtacaggcag
47 Gln Leu Cys Thr Trp Trp His Asp Ser Gly Glu Ile Asn Thr Gly Thr Pro Val Gln Ala
241 gaaacgttcgacaatcccgaagtactctgtccatgtgagcctggcagaccgtaaccaat
67 Gly Asn Val Arg Gln Ser Arg Lys Tyr Ser Val His Val Ser Leu Ala Asp Arg Asn Gln
301 tctacgactctttcgtatatgaatcgatacctaggaacggcaatggcagaatttattctc
87 Phe Tyr Asp Ser Phe Val Tyr Glu Ser Ile Pro Arg Asn Gly Asn Gly Arg Ile Tyr Ser
361 ccaccgacccacctaacagcaatacattgaatagtagcattgacgacgggtatatcaatcg
107 Pro Thr Asp Pro Pro Asn Ser Asn Thr Leu Asn Ser Ser Ile Asp Asp Gly Ile Ser Ile
421 aaccatctctcggcatcaaacatggcttgggtccagttcgaatatagacgagatgtcgaca
127 Glu Pro Ser Leu Gly Ile Asn Met Ala Trp Ser Gln Phe Glu Tyr Arg Arg Asp Val Asp
481 ttaagattactacaatcgatggctcaatattggatggcccttggacattgttattcggc
147 Ile Lys Ile Thr Thr Ile Asp Gly Ser Ile Leu Asp Gly Pro Leu Asp Ile Val Ile Arg
541 cgacttctgttaagtactcagtcaaaagatgtgtgggtgtatcattattagagtcctt
167 Pro Thr Ser Val Lys Tyr Ser Val Lys Arg Cys Val Gly Gly Ile Ile Ile Arg Val Pro
601 atgatcccaatgggtcgaaaattctctgttgagttaaagagtacctttacagttacctct
187 Tyr Asp Pro Asn Gly Arg Lys Phe Ser Val Glu Leu Lys Ser Asp Leu Tyr Ser Tyr Leu
661 ccgacggttcgcaatatgtgacctctggaggagcgtggttgggtgtggagccaaaaaatg
207 Ser Asp Gly Ser Gln Tyr Val Thr Ser Gly Gly Ser Val Val Gly Val Glu Pro Lys Asn
721 ccctggtgatcttggcagcccttcttggccagggatattggttctcatatgacaccac
227 Ala Leu Val Ile Phe Ala Ser Pro Phe Leu Pro Arg Asp Met Val Pro His Met Thr Pro
781 acgacacccagacaatgaagccgggcccgaatcaataatggggactgggggtcaaagccta
247 His Asp Thr Gln Thr Met Lys Pro Gly Pro Ile Asn Asn Gly Asp Trp Gly Ser Lys Pro
841 tactctacttcccgcttggcgtatactggatgaacgaggatacctctggttaaccccgga
267 Ile Leu Tyr Phe Pro Pro Gly Val Tyr Trp Met Asn Glu Asp Thr Ser Gly Asn Pro Gly
901 agctcggctcaaatcatatgcggctggatcccaatacctactgggtccatctagccccag
287 Lys Leu Gly Ser Asn His Met Arg Leu Asp Pro Asn Thr Tyr Trp Val His Leu Ala Pro
961 gagcctatgtgaaaggagccattgagtatttcacgaagcaaaatttctatgcaacgggtc
307 Gly Ala Tyr Val Lys Gly Ala Ile Glu Tyr Phe Thr Lys Gln Asn Phe Tyr Ala Thr Gly
1021 atggcgcttctcaggtgagaactatgtttatcaggccaatgcagctgataactactatg
327 His Gly Val Leu Ser Gly Glu Asn Tyr Val Tyr Gln Ala Asn Ala Ala Asp Asn Tyr Tyr
1081 ccgtcaagagtgatggcacaagcttgagaatgtggtggcacaacaaccttggaggcggtc
347 Ala Val Lys Ser Asp Gly Thr Ser Leu Arg Met Trp Trp His Asn Asn Leu Gly Gly Gly
1141 aaacatgggttttgcattggggccaccattaatgcaccgcccgttaatacgtatggactca
367 Gln Thr Trp Phe Cys Met Gly Pro Thr Ile Asn Ala Pro Pro Phe Asn Thr Met Asp Phe
1201 acggaaactctaattttccagccggattagtactataagcaggttggcgcttattttt
387 Asn Gly Asn Ser Asn Ile Ser Ser Arg Ile Ser Asp Tyr Lys Gln Val Gly Ala Tyr Phe
1261 tccaaacagacggaccggagatctacgaggacagtgtgtccatgacgtcttctggcatg
407 Phe Gln Thr Asp Gly Pro Glu Ile Tyr Glu Asp Ser Val Val His Asp Val Phe Thr His
1321 ttaatgatgatgccatcaagacatatttccggagcttcaatttcacgagcaaccatct

FIG. 1a

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427 Val Asn Asp Asp Ala Ile Lys Thr Tyr Tyr Ser Gly Ala Ser Ile Ser Arg Ala Thr Ile
1381 ggaagtgtcacaatgacccgatcacagatgggctggacgtcacgaaatctcaccggaa
447 Trp Lys Cys His Asn Asp Pro Ile Ile Gln Met Gly Trp Thr Ser Arg Asn Leu Thr Gly
1441 tcagcattgataacctgcacgtcatccacacgagatatttcaaactctgaaacagtgggtc
467 Ile Ser Ile Asp Asn Leu His Val Ile His Thr Arg Tyr Phe Lys Ser Glu Thr Val Val
1501 cttcagcaatcattggagcgtctccattctacgcaagtggaaactgttgatcccagcg
487 Pro Ser Ala Ile Ile Gly Ala Ser Pro Phe Tyr Ala Ser Gly Met Thr Val Asp Pro Ser
1561 agtccatcagcatgaccatctctaactgggtgtgtgagggtctatgcccctcactgttcc
507 Glu Ser Ile Ser Met Thr Ile Ser Asn Val Val Cys Glu Gly Leu Cys Pro Ser Leu Phe
1621 gtatcactccgcttcagagctacaacaaccttgttgtaagaacgtggccttcccgatg
527 Arg Ile Thr Pro Leu Gln Ser Tyr Asn Asn Leu Val Val Lys Asn Val Ala Phe Pro Asp
1681 gactgcagacaaatccaatcggaataggagagagcattataccagcagcttccggctgta
547 Gly Leu Gln Thr Asn Pro Ile Gly Ile Gly Glu Ser Ile Ile Pro Ala Ala Ser Gly Cys
1741 caatggacttggaatcacaaactggaccgtcaaaggacaaaaagtcaccatgcaaaact
567 Thr Met Asp Leu Glu Ile Thr Asn Trp Thr Val Lys Gly Gln Lys Val Thr Met Gln Asn
1801 ttcagtcgggtcacttggccagttcgatatcgatgggttcatactgggggtcaatggtcca
587 Phe Gln Ser Gly Ser Leu Gly Gln Phe Asp Ile Asp Gly Ser Tyr Trp Gly Gln Trp Ser
1861 taaactaaagctattccattcacctgagtattttcgtgggttcaatgagttctgttac
607 Ile Asn *
1921 tgatggggcccttgctagtggtaaaagtagagggacttgctctcgccgggcgccaaggaa
1981 gttcatgtcttctagttagaatagatttcttctctctcgttaaaaaaaaaaaaaaa
2041 aaaaaaaaaaaaaa 2052

FIG. 1b

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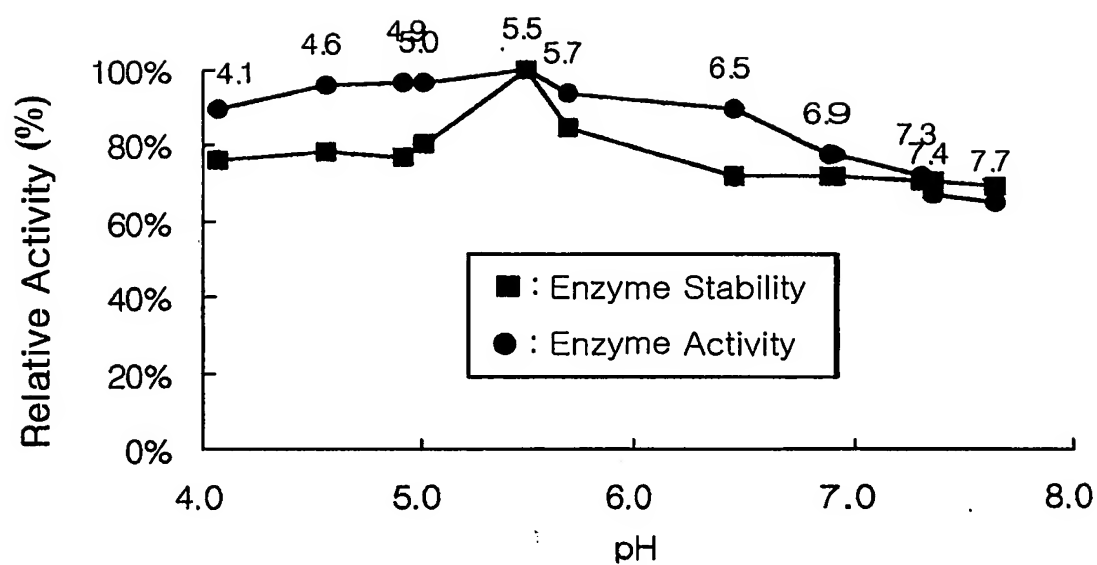


FIG. 2

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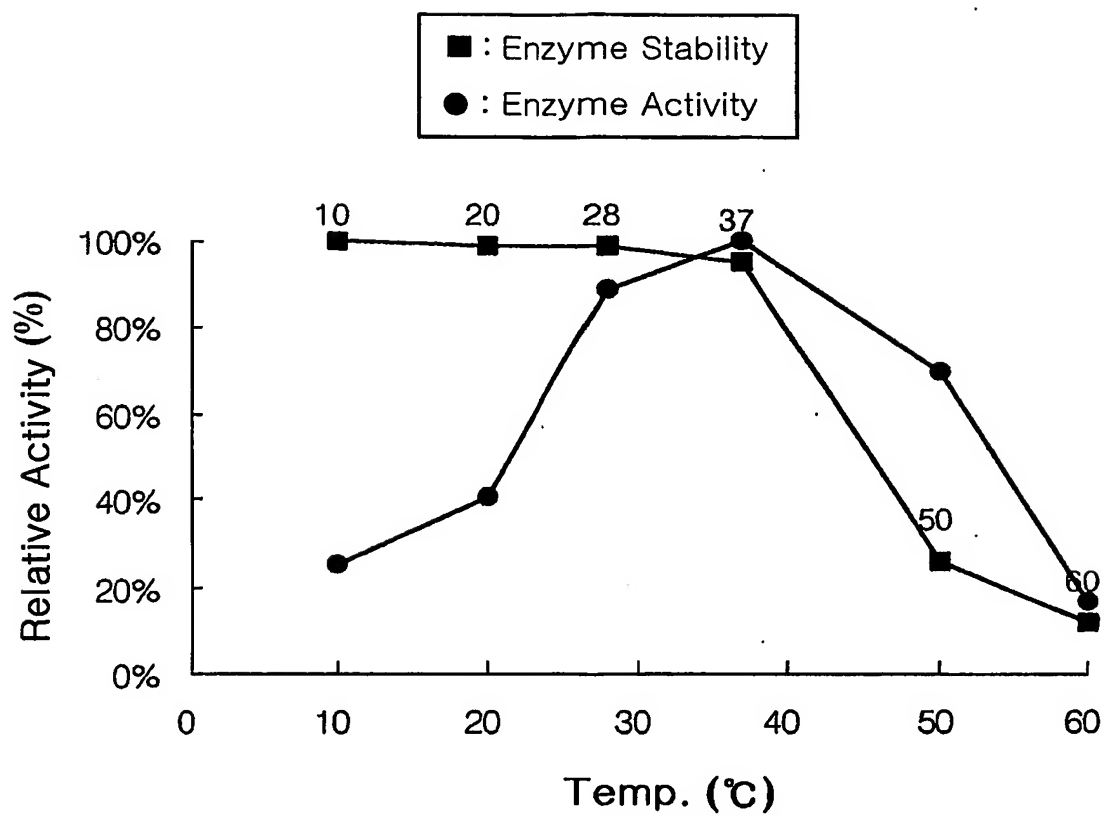


FIG. 3

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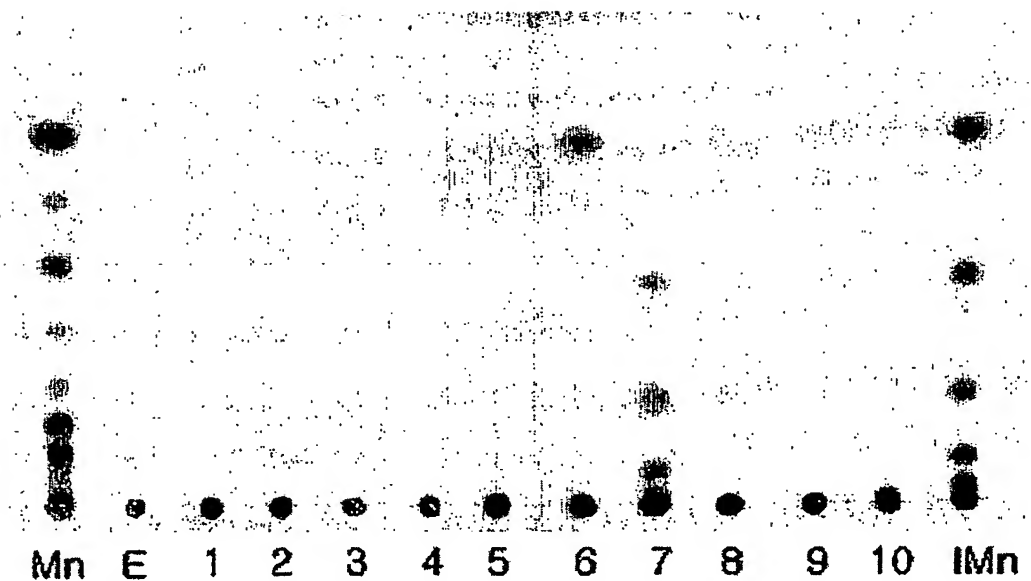


FIG. 4

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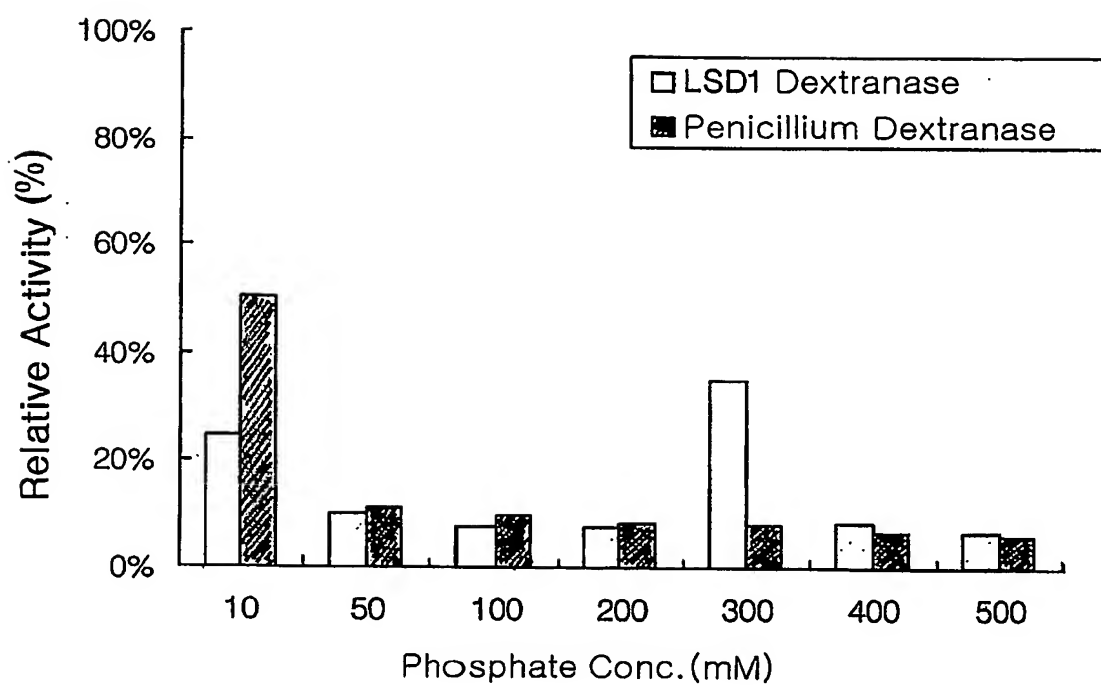


FIG. 5

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